SOLAR CORONA ENERGY
empowering your life. always...

Energy Boost – Easy – 16/30/50

The All-In-One Solar Power Solution

The Easy Solar Power Conditioner combines a MPPT solar charge controller, an inverter/charger and AC distribution in one enclosure. The product is easy to install, with a minimum of wiring.

The Solar Charge Controller: Blue Solar MPPT

Up to three strings of PV panels can be connected with three sets of MC4 (PV-ST01) PV connectors.

The Inverter / Charger: 1600 / 3000 / 5000

The MPPT charge controller and the MultiPlus Compact inverter/charger share the DC battery cables (included). The batteries can be charged with solar power (Blue Solar MPPT) and/or with AC power (inverter/charger) from the utility grid or a genset.

AC Distribution

The AC distribution consists of an RCD (Residual Current Device) and four AC outputs protected by two 10A and two 16A circuit breakers. An additional 16A output is controlled by the AC input: it will switch on only when AC supply is available.

Power Assist

Unique Power Assist technology protects the utility or generator supply from being overloaded by adding extra inverter power when needed.

Colour Control Panel

Two outstanding functions:
- Prioritizes battery charging by the MPPT charge controller
- Connects to the internet, enabling remote monitoring (VRM website) and remote control.

Unique Solar Application Software

Several software programs (Assistants) are available to configure the system for various grid interactive or stand-alone applications.

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Technical Data				
Sl. No	Technical Description	Energy Boost – Easy 16	Energy Boost – Easy 30	Energy Boost – Easy 50
Solar PV Module				
1	Nominal Power Capacity (Wp)	1920	2880	5120
2	Roof Area Required (Sq. Ft)	200	300	500
3	Estimated Daily Usable Energy (kWh)	7680	11520	20480
Inverter				
4	Nominal Input DC Voltage (Vdc)	24	48	48
5	Input voltage range (Vdc)	19 – 33	38 – 63	38 – 66
6	'Heavy duty' AC output -Current (A)	16		
7	Output - Single Phase AC (3 wire)	Voltage : 230 V (± 2%), Frequency: 50 Hz (± 0.1%)		
8	Continuous output power (VA)	1600	3000	5000
9	Peak output power (W)	3000	6000	10000
10	Maximum efficiency (%)	94	95	95
11	Self-Consumption (W)	10	16	35
Battery Charger				
12	AC Input - Single Phase (3 wire)	Voltage range: 187-265V, Frequency: 45 – 65Hz, Power factor: 1		
13	Charge voltage 'absorption' (V)	28.8	57.6	57.6
14	Charge voltage 'float' (V)	27.6	55.2	55.2
15	Storage mode (V)	26.4	52.8	52.8
16	Charge current (A)	40	35	70
17	Battery temperature sensor & Programmable relay	Yes		
18	Protection	Output Short Circuit, Overload, Battery Voltage too high, Battery Voltage too low, Temperature too high, Input Voltage Ripple too high		
Solar Charge Controller				
19	Model	MPPT 100/50	MPPT 150/70-MC4	MPPT 150/100-MC4
20	Maximum output current (A)	50	70	100
21	Maximum PV open circuit voltage (V)	100	150	150
22	Maximum efficiency (%)	98		
23	Charge voltage 'absorption', (V)	28.8	57.6	57.6
24	Protection	Output Short Circuit, Overload, Battery Voltage too high, Battery Voltage too low, Temperature too high, Input Voltage Ripple too high		
Common Characteristics				
25	Operating temp. range	-40 to +65°C (fan assisted cooling)		
26	Humidity (non-condensing) (%)	max 95		
Standards				
27	Safety	EN 60335-1, EN 60335-2-29, EN 62109		
28	Emission / Immunity	EN 55014-1, EN 55014-2, EN 61000-3-3	EN 55014-1, EN 55014-2, EN 61000-3-3, EN 61000-6-3, EN 61000-6-2, EN 61000-6-1	
Battery				
29	Type	Solar Tubular GEL		
30	Operating Voltage (V)	24	48	48
31	Capacity (Ah)	200	200	200
32	Battery Backup (at full load) *	2 hrs	2.75 hrs	1.5 hrs
* Higher backup battery also can be supplied				

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